

Please type and sign (+) inside this box

+

PTO/SB/01 (10-00)

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☐ Declaration  
Submitted With Initial  
Filing

OR

☒ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number	6160-1P59B
First Named Inventor	Robert W. Balliett
<b>COMPLETE IF KNOWN</b>	
Application Number	09/852,207
Filing Date	May 9, 2001
Group Art Unit	1754
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**PRODUCTION OF PURE MOLYBDENUM OXIDE FROM LOW GRADE  
MOLYBDENITE CONCENTRATES**

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) **05/09/2001** as United States Application Number or PCT International

Application Number **09/852,207** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

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<b>Name</b>					
<b>Address</b>					
<b>Address</b>					
<b>City</b>			<b>State</b>	<b>ZIP</b>	
<b>Country</b>		<b>Telephone</b>		<b>Fax</b>	
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>					
<b>NAME OF SOLE OR FIRST INVENTOR:</b>			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name      Robert W.			Family Name   Balliett or Surname		
<b>Inventor's Signature</b>					<b>Date</b>
<b>Residence: City</b>		<b>State</b>	<b>Country</b>	<b>Citizenship</b>	
Westborough		MA	USA	US	
<b>Mailing Address</b> 57 Mill Road					
<b>Mailing Address</b>					
<b>City</b>		<b>State</b>	<b>ZIP</b>	<b>Country</b>	
Westborough		MA	01581	USA	
<b>NAME OF SECOND INVENTOR:</b>			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name      Wolfgang			Family Name   Kummer or Surname		
<b>Inventor's Signature</b>		<b>Date</b>			
<b>Residence: City</b>		<b>State</b>	<b>Country</b>	<b>Citizenship</b>	
			Germany	German	
<b>Mailing Address</b> c/o H.C. Starck GmbH & Co. KG.					
<b>Mailing Address</b> Im Schleeke 78-91					
<b>City</b>		<b>State</b>	<b>ZIP</b>	<b>Country</b>	
Goslar				Germany	
<input checked="" type="checkbox"/> Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

Please type a plus sign (+) inside this box ➔

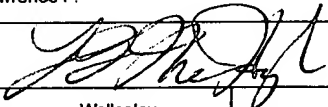


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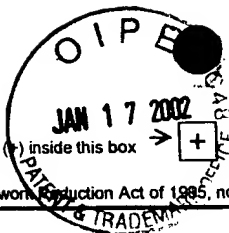
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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> <b>Supplemental Sheet</b> <b>Page 1 of 2</b>
--------------------	--

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name John E.		Family Name or Surname Litz	
Inventor's Signature		Date	
Residence: City Golden	State CO	Country USA	Citizenship US
Mailing Address 11010 West 29th Street			
Mailing Address			
City Golden	State CO	ZIP 80401	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Lawrence F.		Family Name or Surname McHugh	
Inventor's Signature 		Date	
Residence: City Wellesley	State MA	Country USA	Citizenship US
Mailing Address 23 Wedgewood Road			
Mailing Address			
City Wellesley	State MA	Zip 02481	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Harry H.K.		Family Name or Surname Nauta	
Inventor's Signature		Date	
Residence: City TG Brielle	State	Country Netherlands	Citizenship Netherlands
Mailing Address Hoogaars 76			
Mailing Address			
City TG Brielle	State	Zip 3232	Country Netherlands

**Burden Hour Statement:** This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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## DECLARATION

ADDITIONAL INVENTOR(S)  
Supplemental Sheet  
Page 2 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Paul B.		Family Name or Surname Queneau	
Inventor's Signature		Date	
Residence: City Golden	State CO	Country USA	Citizenship US
Mailing Address 1954 Mt. Zion Drive			
Mailing Address			
City Golden	State CO	ZIP 80401	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Rong-Chien		Family Name or Surname Wu	
Inventor's Signature		Date	
Residence: City Chelmsford	State MA	Country USA	Citizenship US
Mailing Address 3 Rosemary Lane			
Mailing Address			
City Chelmsford	State MA	Zip 01824	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	Zip	Country

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☐ Declaration  
Submitted With Initial  
Filing OR  
☒ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number	6160-1P59B
First Named Inventor	Robert W. Balliett
<b>COMPLETE IF KNOWN</b>	
Application Number	09/852,207
Filing Date	May 9, 2001
Group Art Unit	1754
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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MOLYBDENITE CONCENTRATES**

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) **05/09/2001** as United States Application Number or PCT International

Application Number **09/852,207** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

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[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

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<b>Name</b>					
<b>Address</b>					
<b>Address</b>					
<b>City</b>			<b>State</b>	<b>ZIP</b>	
<b>Country</b>		<b>Telephone</b>		<b>Fax</b>	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
<b>NAME OF SOLE OR FIRST INVENTOR:</b>			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name Robert W.			Family Name Balliett or Surname		
<b>Inventor's Signature</b>					<b>Date</b>
<b>Residence: City</b> Westborough		<b>State</b> MA	<b>Country</b> USA	<b>Citizenship</b> US	
<b>Mailing Address</b> 57 Mill Road					
<b>Mailing Address</b>					
<b>City</b> Westborough		<b>State</b> MA	<b>ZIP</b> 01581	<b>Country</b> USA	
<b>NAME OF SECOND INVENTOR:</b>			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name Wolfgang			Family Name Kummer or Surname		
<b>Inventor's Signature</b>		<b>Date</b>			
<b>Residence: City</b>		<b>State</b>	<b>Country</b> Germany	<b>Citizenship</b> German	
<b>Mailing Address</b> c/o H.C. Starck GmbH & Co. KG.					
<b>Mailing Address</b> Im Schleeke 78-91					
<b>City</b> Goslar		<b>State</b>	<b>ZIP</b>	<b>Country</b> Germany	
<input checked="" type="checkbox"/> Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> <b>Supplemental Sheet</b> <b>Page 1 of 2</b>
--------------------	--

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
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Inventor's Signature		Date	
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Mailing Address			
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Mailing Address			
City Wellesley	State MA	Zip 02481	Country USA
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Inventor's Signature 		Date 20-9-01	
Residence: City TG Brielle	State	Country Netherlands	Citizenship Netherlands
Mailing Address Hoogaars 76			
Mailing Address			
City TG Brielle	State	Zip 3232	Country Netherlands

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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**DECLARATION****ADDITIONAL INVENTOR(S)  
Supplemental Sheet  
Page 2 of 2**

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Paul B.		Family Name or Surname Queneau	
Inventor's Signature		Date	
Residence: City Golden	State CO	Country USA	Citizenship US
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Mailing Address			
City Golden	State CO	ZIP 80401	Country USA
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Given Name Rong-Chien		Family Name or Surname Wu	
Inventor's Signature		Date	
Residence: City Chelmsford	State MA	Country USA	Citizenship US
Mailing Address 3 Rosemary Lane			
Mailing Address			
City Chelmsford	State MA	Zip 01824	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	Zip	Country

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JAN 17 2002

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**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT****Application Number** 09/852,207**Filing Date** May 9, 2001**First Name and Inventor** Robert W. Balliett**Group Art Unit** 1754**Examiner Name** N/A**Attorney Docket Number** 6160-1P59B

I hereby appoint:

☒ Practitioners at Customer Number

26486

OR

☐ Practitioner(s) named below:Place Customer  
Number Bar Code  
Label here

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☐ Firm or  
Individual Name

Address

Address

City

State

ZIP

Country

Telephone

Fax

I am the:

☒ Applicant.☐ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record****Name** Lawrence F. McHugh**Signature****Date**

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Form PTO-1595  
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

RECORDATION FORM COVER SHEET  
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

Tab settings ⇨ ⇨ ⇨ ▾ ▾ ▾ ▾ ▾ ▾ ▾

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Lawrence F. McHugh

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: September 17, 2001

2. Name and address of receiving party(ies)

Name: H.C. Starck, Inc.

Internal Address: \_\_\_\_\_

Street Address: 45 Industrial Place

City: Newton State: MA Zip: 02461

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

09/852,207

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jerry Cohen

Internal Address: Perkins, Smith & Cohen, LLP

Street Address: One Beacon Street  
30th Floor

City: Boston State: MA Zip: 02108

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☒ Authorized to be charged to deposit account  
Deficiencies Only

8. Deposit account number:

03-2410 Order No.: 6160-1P59B

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kathryn E. Noll

Name of Person Signing

Kathryn E. Noll  
Signature

Sept. 24, 2001  
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

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TC 1700

## ASSIGNMENT

WHEREAS, I, Lawrence F. McHugh, residing at 23 Wedgewood Road, Wellesley, MA 02481, (hereinafter referred to as "Assignor") have jointly made an invention entitled "PRODUCTION OF PURE MOLYBDENUM OXIDE FROM LOW GRADE MOLYBDENITE CONCENTRATES", for which an application for a United States Patent was filed on May 9, 2001 and accorded serial number 09/852,207.

WHEREAS, H.C. Starck, Inc., a corporation organized and existing under the laws of the State of Massachusetts, having its principal place of business at 45 Industrial Place, Newton, MA 02461 (hereinafter referred to as "Assignee"), is desirous of acquiring right, title and interest in said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignors by these presents, do sell, assign and transfer to Assignee, Assignors' entire right, title and interest, for the United States of America and its possessions and territories and for all foreign countries, in and to said invention, including all rights of priority created and conferred by any treaty or international convention which is available in connection with said invention, including the right to apply for patent rights, U.S. or foreign, and in any continuations, divisions, substitutes, renewals, reissues or other applications filed in the U.S. or abroad (including multinational filing arrangements of all kinds), and in any U.S. or foreign patents issued on any such applications and reissues, extensions and renewals thereof, to be held and enjoyed by Assignee, for its own use and behalf and for its successors and assigns, to the full ends of the terms or extended terms for which any Letters Patents or the like may be granted, as fully and entirely as the same would have been held by Assignors had this sale, assignment and transfer not been made.

Assignors hereby authorize and request the Commissioner of Patents of the United States, and any official of any country or countries (including multinational filing arrangements of all kinds), whose duty it is to receive and/or examine applications for patents or similar industrial property, issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors and assigns, in accordance with the terms of this instrument.

Assignors covenant with Assignee, its successors, assigns, and legal representatives that Assignors have full right to convey the entire interest herein assigned, and that Assignors have not executed any agreement in conflict herewith and will not execute any agreement or conveyance in conflict herewith.

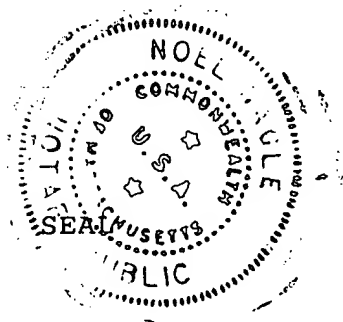
Assignors further covenant and agree to communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignors respecting said invention, and testify in any legal proceeding, sign all lawful papers, including, without limitation, application papers, assignments, powers of attorney, declarations, and other instruments, execute all divisional, continuing, substitute, reissue, renewal and foreign applications, make all truthful oaths, declarations and statements, and generally do everything reasonably requested of Assignors by Assignee, or its successors or assigns to aid Assignee, its successors or assigns, to obtain, enforce and /or exploit said invention.

Executed this 17<sup>th</sup> day of Sept, 2001.

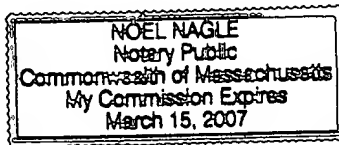
  
Lawrence F. McHugh

State of Mass. )  
County of U.S.A. ) ss.

Before me appeared Lawrence F. McHugh on this 17<sup>th</sup> day of Sept., 2001, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.



Noel Nagle  
Notary Public  
My commission expires 7/15/2007



Assignment/sole